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Nuclear modification factor of D-0 mesons in PbPb collisions at root s(NN)=5.02 TeV

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Abstract

The transverse momentum (p_T) spectrum of prompt D-0 mesons and their antiparticles has been measured via the hadronic decay channels $D-0 \rightarrow K^- \pi^+$ and $(D) \text{ over bar } (0) \rightarrow K^+ \pi^-$ in pp and PbPb collisions at a centre-of-mass energy of 5.02 TeV per nucleon pair with the CMS detector at the LHC. The measurement is performed in the D-0 meson p_T range of 2-100 GeV/c and in the rapidity range of $|\eta| < 1$. The pp (PbPb) dataset used for this analysis corresponds to an integrated luminosity of 27.4 pb⁻¹ (530 mu b⁻¹). The measured D-0 meson p_T spectrum in pp collisions is well described by perturbative QCD calculations. The nuclear modification factor, comparing D-0 meson yields in PbPb and pp collisions, was extracted for both minimum-bias and the 10% most central PbPb interactions. For central events, the D-0 meson yield in the PbPb collisions is suppressed by a factor of 5-6 compared to the pp reference in the p_T range of 6-10 GeV/c. For D-0 mesons in the high- p_T range of 60-100 GeV/c, a significantly smaller suppression is observed. The results are also compared to theoretical calculations. (C) 2018 The Author(s). Published by Elsevier B.V.

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